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## RAW SEQUENCE LISTING

DATE: 07/12/2004

PATENT APPLICATION: US/10/807,004A

TIME: 16:53:43

Input Set : A:\1279-281C1-SEQUENCE LISTING.txt

Output Set: N:\CRF4\07122004\J807004A.raw

3 <110> APPLICANT: Morse, Daniel E.  
 4 Kisailus, David  
 5 Roth, Kristian M.  
 7 <120> TITLE OF INVENTION: METHODS, COMPOSITIONS, AND BIOMIMETIC CATALYSTS FOR THE  
 SYNTHESIS

8 OF SILICA, POLYSILSEQUIOXANES, POLYSILOXANES, NON-SILICON  
 9 METALLOID-OXYGEN NETWORKS, POLYMETALLO-OXANES, AND THEIR ORGANIC  
 10 OR HYDRIDO CONJUGATES AND DERIVATIVES

12 &lt;130&gt; FILE REFERENCE: 1279-281C1

14 &lt;140&gt; CURRENT APPLICATION NUMBER: 10/807,004A

15 &lt;141&gt; CURRENT FILING DATE: 2004-03-22

17 &lt;150&gt; PRIOR APPLICATION NUMBER: US 10/727,232

18 &lt;151&gt; PRIOR FILING DATE: 2003-12-02

20 &lt;150&gt; PRIOR APPLICATION NUMBER: US 10/278,491

21 &lt;151&gt; PRIOR FILING DATE: 2002-10-22

23 &lt;150&gt; PRIOR APPLICATION NUMBER: US 09/856,599

24 &lt;151&gt; PRIOR FILING DATE: 2001-07-16

26 &lt;150&gt; PRIOR APPLICATION NUMBER: PCT/US99/30601

27 &lt;151&gt; PRIOR FILING DATE: 1999-12-18

29 &lt;150&gt; PRIOR APPLICATION NUMBER: US 60/112,944

30 &lt;151&gt; PRIOR FILING DATE: 1998-12-18

32 &lt;150&gt; PRIOR APPLICATION NUMBER: US 10/478,118

33 &lt;151&gt; PRIOR FILING DATE: 2002-09-11

35 &lt;150&gt; PRIOR APPLICATION NUMBER: PCT/US01/11481

36 &lt;151&gt; PRIOR FILING DATE: 2001-04-04

38 &lt;150&gt; PRIOR APPLICATION NUMBER: US 60/194,568

39 &lt;151&gt; PRIOR FILING DATE: 2000-04-04

41 &lt;160&gt; NUMBER OF SEQ ID NOS: 2

43 &lt;170&gt; SOFTWARE: PatentIn version 3.2

45 &lt;210&gt; SEQ ID NO: 1

46 &lt;211&gt; LENGTH: 330

47 &lt;212&gt; TYPE: PRT

48 &lt;213&gt; ORGANISM: Tethya aurantia

50 &lt;400&gt; SEQUENCE: 1

52 Met Tyr Leu Gly Thr Leu Val Val Leu Cys Val Leu Gly Ala Ala Ile

53 1 5 10 15

56 Gly Glu Pro Met Pro Gln Tyr Glu Phe Lys Glu Glu Trp Gln Leu Trp

57 20 25 30

60 Lys Lys Gln His Asp Lys Ser Tyr Ser Thr Asn Leu Glu Glu Leu Glu

61 35 40 45

64 Lys His Leu Val Trp Leu Ser Asn Lys Lys Tyr Ile Glu Leu His Asn

65 50 55 60

68 Ala Asn Ala Asp Thr Phe Gly Phe Thr Leu Ala Met Asn His Leu Gly

69 65 70 75 80

**ENTERED**

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72 Asp Met Thr Asp His Glu Tyr Lys Glu Arg Tyr Leu Thr Tyr Thr Asn
73          85          90          95
76 Ser Lys Ser Gly Asn Tyr Thr Lys Val Phe Lys Arg Glu Pro Trp Met
77          100          105          110
80 Ala Tyr Pro Glu Thr Val Asp Trp Arg Thr Lys Gly Ala Val Thr Gly
81          115          120          125
84 Ile Lys Ser Gln Gly Asp Cys Gly Ala Ser Tyr Ala Phe Ser Ala Met
85          130          135          140
88 Gly Ala Leu Glu Gly Ile Asn Ala Leu Ala Thr Gly Lys Leu Thr Tyr
89 145          150          155          160
92 Leu Ser Glu Gln Asn Ile Ile Asp Cys Ser Val Pro Tyr Gly Asn His
93          165          170          175
96 Gly Cys Lys Gly Gly Asn Met Tyr Val Ala Phe Leu Tyr Val Val Ala
97          180          185          190
100 Asn Glu Gly Val Asp Asp Gly Gly Ser Tyr Pro Phe Arg Gly Lys Gln
101          195          200          205
104 Ser Ser Cys Thr Tyr Gln Glu Gln Tyr Arg Gly Ala Ser Met Ser Gly
105          210          215          220
108 Ser Val Gln Ile Asn Ser Gly Ser Glu Ser Asp Leu Glu Ala Ala Val
109 225          230          235          240
112 Ala Asn Val Gly Pro Val Ala Val Ala Ile Asp Gly Glu Ser Asn Ala
113          245          250          255
116 Phe Arg Phe Tyr Tyr Ser Gly Val Tyr Asp Ser Ser Arg Cys Ser Ser
117          260          265          270
120 Ser Ser Leu Asn His Ala Met Val Ile Thr Gly Tyr Gly Ile Ser Asn
121          275          280          285
124 Asn Gln Glu Tyr Trp Leu Ala Lys Asn Ser Trp Gly Glu Asn Trp Gly
125          290          295          300
128 Glu Leu Gly Tyr Val Lys Met Ala Arg Asn Lys Tyr Asn Gln Cys Gly
129 305          310          315          320
132 Ile Ala Ser Asp Ala Ser Tyr Pro Thr Leu
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137 <211> LENGTH: 1360
138 <212> TYPE: DNA
139 <213> ORGANISM: Tethya aurantia
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146 ggagagccaa tgccctagta tgagttcaag gaggaatggc agctgtggaa gaaacaacat      180
148 gacaagtctt acagcaccaa cttggaggaa ctggagaaac atcttgtctg gctctccaac      240
150 aagaagtaca ttgaactgca caatgccaat gcagacacct ttggattcac tctagctatg      300
152 aaccatctag gagatatgac tgaccatgaa tacaaggaga gatacctcac atacactaac      360
154 agcaaactct gtaactacac caaggtgttc aaacgtgagc catggatggc ctacccggag      420
156 actgtagatt ggagaacaaa gggcgctgtg actggtatca agagccaggg agatttgtgt      480
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162 ggttgaagg gtggaacat gtatgtggct ttcctctatg ttgttgctaa cgaaggagtt      660
164 gatgatgggg gttcctatcc atttagagga aagcaatcca gttgtacgta tcaagagcag      720

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170	ttcagattct	attacagtgg	agtgtacgac	tcctccagat	gttctagtag	cagtctcaac	900
172	cacgccatgg	tgatcactgg	ctatggaatt	tcaaataacc	aggaatactg	gcttgcaaag	960
174	aacagctggg	gtgagaactg	gggagaactg	ggctatgtga	agatggccag	gaacaagtac	1020
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182	attagctctg	acatgtaaat	tattgtata	atgattctgt	gattatgtct	caatgattat	1260
184	tgtattcaca	atggcatcta	atttgatac	aagcccctca	atcactgact	gatctcatta	1320
186	taatttattt	gatggactac	aaaaaaaaa	aaaaaaaaa			1360

VERIFICATION SUMMARY

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